Supplemental Data

An ELISA for measuring GPIHBP1 levels in human plasma or serum

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Supplemental Table 1

Intra- and inter-assay coefficients of variation of the GPIHBP1 sandwich ELISA. Tests were performed on three quality controls (QC) covering the high, medium, and low range of the calibration curve. The column "*n*" represents the number of replicates. GPIHBP1 levels are expressed as mean ± SD. CV, coefficient of variation.

	QC	Mean (pg/ml)	SD (pg/ml)	CV (%)	*n*
Intra-assay variation	**High**	240.91	16.69	6.9	24
	Medium	57.80	4.42	7.6	24
	Low	17.76	1.28	7.2	24
Inter-assay variation	**High**	231.20	11.96	5.2	13
	Medium	57.18	2.95	5.2	13
	Low	16.90	1.08	6.4	13

Supplemental Table 2

GPIHBP1 levels (pg/ml) in fasting and postprandial plasma samples from 9 healthy subjects.

	GPIHBP1 levels (pg/ml)	
Sample #	**Fasting**	**Postprandial**
1	1091	1063
2	828	933
3	654	739
4	652	726
5	612	519
6	522	557
7	554	554
8	752	764
9	1023	952
mean	**743**	**756**

Supplemental Figure 1

Dose-response response curve for an ELISA designed to identify GPIHBP1–LPL complexes. To detect GPIHBP1–LPL complexes in human plasma, we used a solid-phase sandwich ELISA in which plates were coated with an LPL specific antibody (mAb 5D2), and any LPL-bound GPIHBP1 captured by mAb 5D2 was detected with the GPIHBP1-specific mAb IU-20. Positive controls consisted of GPIHBP1–LPL complexes generated by co-cultivating HEK-293 cells that had been transfected with human GPIHBP1 and HEK-293 cells that had been transfected with human LPL. Shown is a standard curve of GPIHBP1–LPL complexes produced in HEK-293 cells. On this plot, a GPIHBP1–LPL complex concentration of 10 U/ml corresponds to a mixture of 462 ng/ml of human GPIHBP1 and 4312 ng/ml of human LPL.